

WHAT IS CLAIMED IS:

1. A DNA segment encoding a mammalian GDF-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.
2. The DNA segment according to claim 1 wherein said GDF-1 protein has the sequence as defined in Figure 2, 11A or 11B.
3. The DNA segment according to claim 1 wherein said mammal is a mouse, hamster or human.
4. A mammalian GDF-1 protein substantially free of proteins with which it is naturally non-covalently associated, or an epitope specific thereto.
5. The protein according to claim 4 which is unglycosylated.
6. The protein according to claim 4 wherein said mammal is a mouse, hamster or human.
7. The protein according to claim 4 wherein said protein is chemically synthesized.
8. The protein according to claim 4 wherein said protein has a sequence as defined in Figure 2, 11A or 11B, or functionally equivalent variation thereof.
9. A recombinantly produced GDF-1 protein having the amino acid sequence given in Figure 2, 11A or 11B, or functionally equivalent variation thereof.

10. The protein according to claim 9 wherein said protein is unglycosylated.

11. A recombinant DNA molecule comprising:

- i) said DNA segment according to claim 1;
- and
- ii) a vector.

12. A host cell stably transformed with said recombinant DNA molecule according to claim 11.

13. The host cell according to claim 12 wherein said cell is a procaryotic cell.

14. The host cell according to claim 12 wherein said cell is a eucaryotic cell.

15. A method of producing a recombinant GDF-1 protein, or functionally equivalent variation thereof, comprising culturing said host cell according to claim 12 under conditions such that said segment is expressed and said GDF-1 protein thereby produced, and isolating said GDF-1 protein.

16. A DNA segment encoding a mammalian UOG-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.

17. A mammalian UOG-1 protein substantially free of proteins with which it is naturally non-covalently associated, or an epitope specific thereto.

18. A recombinantly produced UOG-1 protein having the amino acid sequence given in

Figure 11A or 11B, or functionally equivalent variation thereof.

19. A recombinant DNA molecule comprising:

- i) said DNA segment according to claim 16; and
- ii) a vector.

20. A host cell stably transformed with said recombinant DNA molecule according to claim 19.

21. A method of producing a recombinant UOG-1 protein, or functionally equivalent variation thereof, comprising culturing said host cell according to claim 20 under conditions such that said segment is expressed and said UOG-1 protein thereby produced, and isolating said UOG-1 protein.